

Datasheet for 600-401-ED5**S1P1 Antibody****Overview**

Description:	Anti-S1P1 (RABBIT) Antibody - 600-401-ED5
Item No.:	600-401-ED5
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Movement of lymphocytes through lymphoid organs is required for generating immunity. Their migration into lymph nodes follows a series of events including integrin activation through chemokine signaling, adhesion and diapedis. The release of lymphocytes from lymph nodes is regulated by the phospholipid sphingosine-1-phosphate (S1P). One of its receptors S1P1 binds S1P with high specificity and affinity; agonism of this receptor by the immunosuppressive agent FTY720 inhibits the entry of tissue T cells into afferent lymphatics in homeostatic and inflammatory conditions. Recent experiments have indicated that CCR7-deficient T cells left lymph nodes more rapidly than wild-type cells did and these cells were also less effectively retained after treatment with FTY720, and that egress competence could be restored by inactivating G alpha i-protein-coupled receptor signaling. These results suggest that S1P1 acts in the lymphocyte to promote lymph node egress by overcoming retention signals mediated by CCR7 and G alpha i-protein-coupled receptor signaling.
Synonyms:	S1P1 Antibody, EDG1, S1P1, CD363, ECGF1, EDG-1, CHEDG1, D1S3362, EDG1, Sphingosine 1-phosphate receptor 1, Endothelial differentiation G-protein coupled receptor 1, S1P receptor 1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	S1PR1
Reactivity:	Human, Mouse, Rat

Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-S1P1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 14 amino acid synthetic peptide near the C-terminus of the human S1P1.
Purity/Specificity:	Anti-S1P1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. At least two isoforms of S1P1 are known to exist; this S1P1 antibody will only recognize the shorter isoform.
Relevant Links:	• UniProtKB - Q01826 • UniProtKB - P21453 • GeneID - 6304 • GeneID - 1901 • NCBI - Q01826 • NCBI - NP_001391

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-S1P1 Antibody has been tested for use in ELISA, Western Blotting, Immunofluorescence, and Immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 43 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:20,000
IF:	20 µg/mL
IHC:	2.5 µg/mL
WB:	1-2 µg/mL

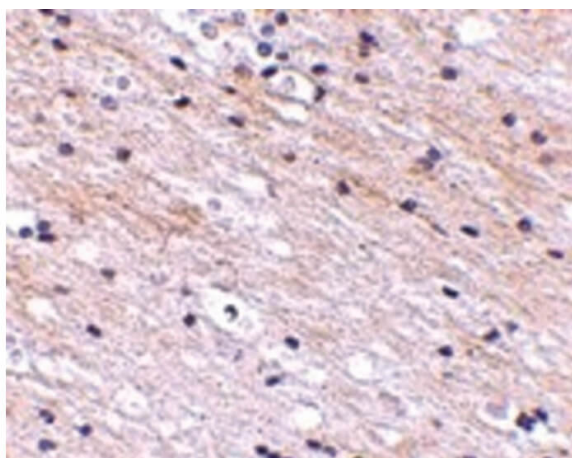
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

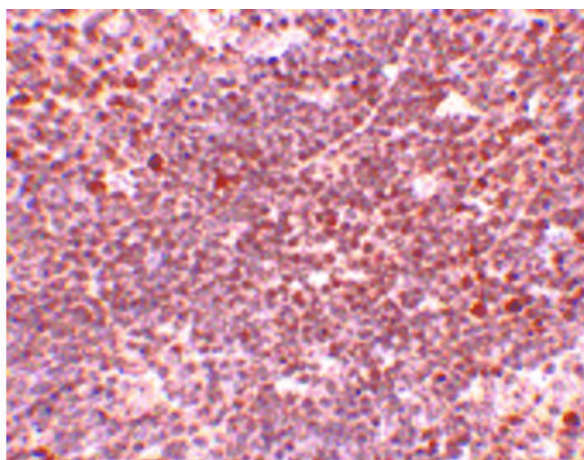
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



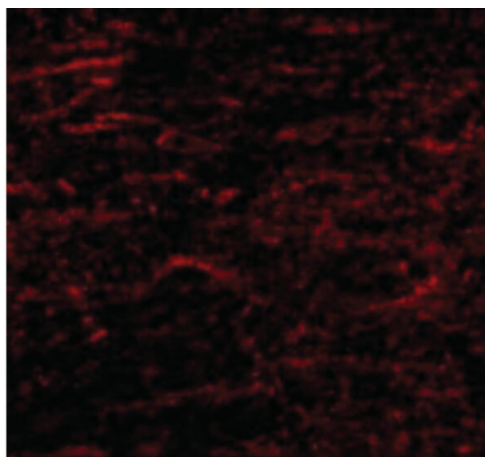
Immunohistochemistry

Immunohistochemistry of SATB1 antibody. Tissue: Human brain tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: SATB1 antibody at 2.5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: SATB1 is nuclear and occasionally cytoplasmic. Staining: SATB1 as precipitated red signal with hematoxylin purple nuclear counterstain.



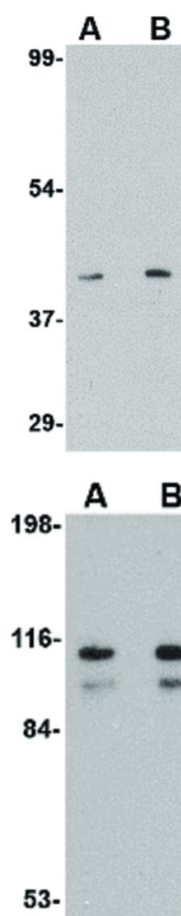
Immunohistochemistry

Immunohistochemistry of S1P1 antibody. Tissue: Mouse thymus tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: S1P1 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: S1P1 is nuclear and occasionally cytoplasmic. Staining: S1P1 as a precipitated red signal with hematoxylin purple nuclear counterstain.



Immunofluorescence Microscopy

Immunofluorescence Microscopy of SATN(NT) antibody.
 Tissue: Human brain cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: SATB1(NT) antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: SATB1(NT) as a red fluorescent signal.



Western Blot

Western Blot of S1P1 antibody. Lane A: Mouse thymus lysate at 1 µg/mL. Lane B: Mouse thymus lysate at 2 µg/mL. Load: 35 µg per lane. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 85.9 kDa, ~40 kDa for S1P1.

Western Blot

Western Blot of SATB1 antibody. Lane A: SK-N-SH cell lysate at 1 µg/mL. Lane B: SK-N-SH cell lysate at 2 µg/mL. Load: 35 µg per lane. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 85.9 kDa, ~95 & 110 kDa for SATB1.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.